RAW SEQUENCE LISTING

Loaded by SCORE, no errors detected.

Application Serial Number: **10609296**
Source: OIPE
Date Processed by SCORE: **9/16/2008**

ENTERED

<210> SEQ ID NO 1
<211> LENGTH: 840
<212> TYPE: DNA
<213> ORGANISM: Homo sapiens
<220> FEATURE:
<221> NAME/KEY: CDS
<222> LOCATION: (76)...(636)
<400> SEQUENCE: 1
      acattctaac tgcaaccttt cgaagccttt gctctggcac aacaggtagt aggcgacact
60
      gttcgtgttg tcaac atg acc aac aag tgt ctc ctc caa att gct ctc ctg
111
                        Met Thr Asn Lys Cys Leu Leu Gln Ile Ala Leu Leu
                        1   5   10
      ttg tgc ttc tcc act aca gct ctt tcc atg agc tac aac ttg ctt gga
159
      Leu Cys Phe Ser Thr Thr Ala Leu Ser Met Ser Tyr Asn Leu Leu Gly
              15   20   25
      ttc cta caa aga agc agc aat ttt cag tgt cag aag ctc ctg tgg caa
207
      Phe Leu Gln Arg Ser Ser Asn Phe Gln Cys Gln Lys Leu Leu Trp Gln
          30   35   40
      ttg aat ggg agg ctt gaa tac tgc ctc aag gac agg atg aac ttt gac
255
      Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys Asp Arg Met Asn Phe Asp
       45   50   55   60
      atc cct gag gag att aag cag ctg cag cag ttc cag aag gag gac gcc
303

```
        Ile Pro Glu Glu Ile Lys Gln Leu Gln Gln Phe Gln Lys Glu Asp Ala
                         65                  70                      75
        gca ttg acc atc tat gag atg ctc cag aac atc ttt gct att ttc aga
351

        Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn Ile Phe Ala Ile Phe Arg
                         80                  85                      90
        caa gat tca tct agc act ggc tgg aat gag act att gtt gag aac ctc
399

        Gln Asp Ser Ser Ser Thr Gly Trp Asn Glu Thr Ile Val Glu Asn Leu
                         95                 100                    105
        ctg gct aat gtc tat cat cag ata aac cat ctg aag aca gtc ctg gaa
447

        Leu Ala Asn Val Tyr His Gln Ile Asn His Leu Lys Thr Val Leu Glu
                    110                 115                 120
        gaa aaa ctg gag aaa gaa gat ttc acc agg gga aaa ctc atg agc agt
495

        Glu Lys Leu Glu Lys Glu Asp Phe Thr Arg Gly Lys Leu Met Ser Ser
        125                 130                 135                    140
        ctg cac ctg aaa aga tat tat ggg agg att ctg cat tac ctg aag gcc
543

        Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile Leu His Tyr Leu Lys Ala
                        145                 150                    155
        aag gag tac agt cac tgt gcc tgg acc ata gtc aga gtg gaa atc cta
591

        Lys Glu Tyr Ser His Cys Ala Trp Thr Ile Val Arg Val Glu Ile Leu
                        160                 165                 170
        agg aac ttt tac ttc att aac aga ctt aca ggt tac ctc cga aac
636

        Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr Gly Tyr Leu Arg Asn
                    175                 180                 185
        tgaagatctc ctagcctgtg cctctgggac tggacaattg cttcaagcat tcttcaacca
696

        gcagatgctg tttaagtgac tgatggctaa tgtactgcat atgaaaggac actagaagat
756

        tttgaaattt ttattaaatt atgagttatt tttatttatt taaattttat tttggaaaat
816

        aaattatttt tggtgcaaaa gtca
840

<210> SEQ ID NO 2
<211> LENGTH: 166
<212> TYPE: PRT
<213> ORGANISM: Homo sapiens
<220> FEATURE:
<221> NAME/KEY: CHAIN
<222> LOCATION: (1)...(166)
<223> OTHER INFORMATION: hIFNB mature sequence
<400> SEQUENCE: 2
        Met Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln
          1               5                  10                  15
        Cys Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu
                    20                  25                  30
        Lys Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln
                    35                  40                  45
        Gln Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln
                    50                  55                  60
        Asn Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Asn
        65                  70                  75                  80
        Glu Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn
                        85                  90                  95
        His Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Lys Glu Asp Phe Thr
```

```
                    100                     105                     110
        Arg Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg
              115                     120                     125
        Ile Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr
              130                     135                     140
        Ile Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu
        145                     150                     155                     160
        Thr Gly Tyr Leu Arg Asn
                          165


<210> SEQ ID NO 3
<211> LENGTH: 70
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: primer
<400> SEQUENCE: 3
     ggctagcgtt taaacttaag cttcgccacc atgaccaaca agtgcctgct ccagatcgcc
60
     ctgctcctgt
70


<210> SEQ ID NO 4
<211> LENGTH: 70
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: primer
<400> SEQUENCE: 4
     acaacctgct cggcttcctg cagaggagtt cgaacttcca gtgccagaag ctcctgtggc
60
     agctgaacgg
70


<210> SEQ ID NO 5
<211> LENGTH: 70
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: primer
<400> SEQUENCE: 5
     gaacttcgac atccccgagg aaatcaagca gctgcagcag ttccagaagg aggacgccgc
60
     tctgaccatc
70


<210> SEQ ID NO 6
<211> LENGTH: 70
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: primer
<400> SEQUENCE: 6
     ttccgccagg actccagctc caccggttgg aacgagacca tcgtggagaa cctgctggcc
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     aacgtgtacc
70


<210> SEQ ID NO 7
<211> LENGTH: 70
<212> TYPE: DNA
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<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: primer
<400> SEQUENCE: 7
      aggagaagct ggagaaggag gacttcaccc gcggcaagct gatgagctcc ctgcacctga
60

      agcgctacta
70

<210> SEQ ID NO 8
<211> LENGTH: 70
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: primer
<400> SEQUENCE: 8
      ggagtacagc cactgcgcct ggaccatcgt acgcgtggag atcctgcgca acttctactt
60

      catcaaccgc
70

<210> SEQ ID NO 9
<211> LENGTH: 70
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: primer
<400> SEQUENCE: 9
      caccacactg gactagtgga tccttatcag ttgcgcaggt agccggtcag gcggttgatg
60

      aagtagaagt
70

<210> SEQ ID NO 10
<211> LENGTH: 70
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: primer
<400> SEQUENCE: 10
      aggcgcagtg gctgtactcc ttggccttca ggtagtgcag gatgcggcca tagtagcgct
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      tcaggtgcag
70

<210> SEQ ID NO 11
<211> LENGTH: 70
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: primer
<400> SEQUENCE: 11
      ctccttctcc agcttctcct ccagcacggt cttcaggtgg ttgatctggt ggtacacgtt
60

      ggccagcagg
70

<210> SEQ ID NO 12
<211> LENGTH: 70
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence

<220> FEATURE:
<223> OTHER INFORMATION: primer
<400> SEQUENCE: 12
     gagctggagt cctggcggaa gatggcgaag atgttctgca gcatctcgta gatggtcaga
60

     gcggcgtcct
70

<210> SEQ ID NO 13
<211> LENGTH: 70
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: primer
<400> SEQUENCE: 13
     cctcggggat gtcgaagttc atcctgtcct tcaggcagta ctccaggcgc ccgttcagct
60

     gccacaggag
70

<210> SEQ ID NO 14
<211> LENGTH: 70
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: primer
<400> SEQUENCE: 14
     caggaagccg agcaggttgt agctcatcga tagggccgtg gtgctgaagc acaggagcag
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     ggcgatctgg
70

<210> SEQ ID NO 15
<211> LENGTH: 70
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: primer
<400> SEQUENCE: 15
     ctgctccaga tcgccctgct cctgtgcttc agcaccacgg ccctatcgat gaagcaccag
60

     caccagcatc
70

<210> SEQ ID NO 16
<211> LENGTH: 70
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: primer
<400> SEQUENCE: 16
     cactgcttac tggcttatcg aaattaatac gactcactat agggagaccc aagctggcta
60

     gcgtttaaac
70

<210> SEQ ID NO 17
<211> LENGTH: 70
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE: